



Effective : January 2009
Replaces : September 2005

SERIE C Mouvex Technology Eccentric disc pump

Seal free design

 Seal free means leak free. Designed without mechanical seal, packing or magnets, the C series eliminates leakage and reduces maintenance time.

CIP & SIP abilities

• The stainless steel version is designed to be flushed and cleaned in place without disassembling.

Sanitary & Food applicable

 The stainless steel models are ideal for sanitary applications, carry 3A approval certification and are designed per EHEDG recommendations.





Chemical applicable

• The range of C pumps are in conformity with ATEX certification.

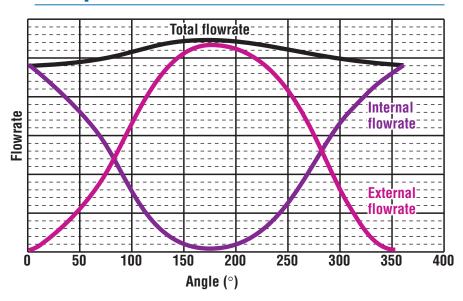






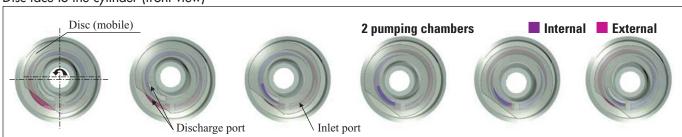


♦ Low pulsation effect



Mouvex Technology

Disc face to the cylinder (front view)



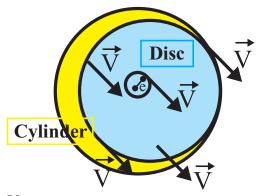
Disc face to the cylinder (cross section)



Low shearing

Displacement of the disc in the cylinder

- The disc has an eccentric motion (driven by an eccentric shaft).
- Each point of the disc has the same linear speed.
- We get a circular translation.
- The mouvex technology allows a flowrate with low linear speed.

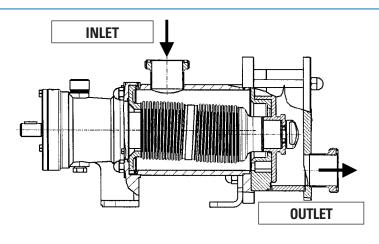


V= .e e: excentration of the shaft

V : linear speed

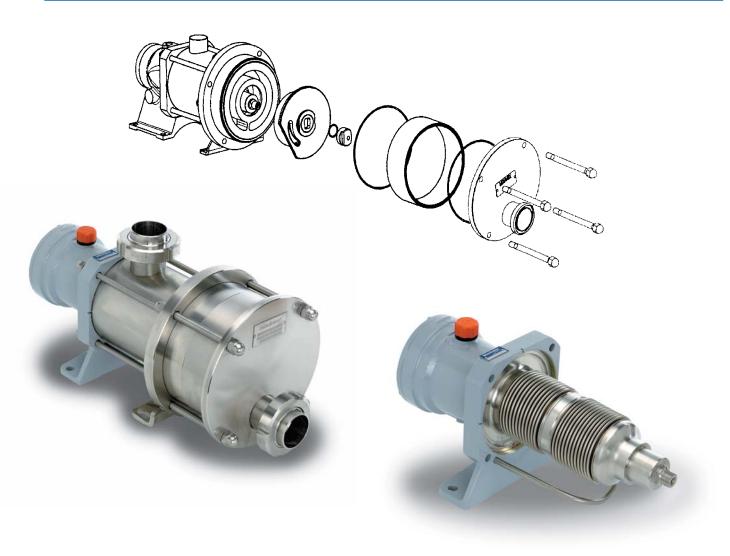
Main advantages

- Self-priming with strong suction power
- Ability to clear the pipes
- Ability to run dry
- Low shear
- Maintenance of the delivery/pressure performance over time due to automatic disc/cylinder adjustment
- Outstanding volumetric efficiency
- Pumped product constantly renewed
- Ability to pump low and high viscosity products
- Output not affected by viscosity variation
- Low linear speed

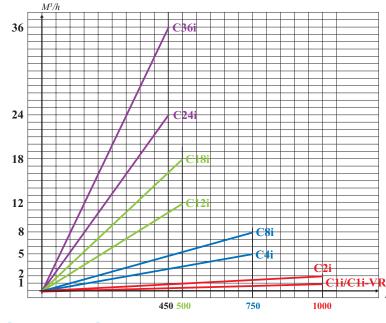


C SERIES (cross section)

Pump without mechanical seal (seal free design)



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BELLOWS: 316 Ti Stainless steel
DISC: "actéon" Stainless steel
CYLINDER: 316 L Stainless steel
BODYCASE: 316 L Stainless steel

SEAL: FDA Viton (L gasket)

Viton O'Ring Encapsulated teflon Téflon (L gasket)

PORT: SMS, DIN, CLAMP, IDF...

Flanges PN16, PN20

♦ Stainless steel construction :

C Series Pump	C1i (C1i-VR)	C2i (C2i-VR)	C4i	C8i	C12i	C18i	C24i	C 36i	C4i-HT	C8i-HT	C12i-HT	C18i-HT
Displacements (liters)	0,016	0,033	0,108	0,178	0,411	0,617	0,95	1,42	0,108	0,178	0,411	0,617
Max. outputs (m³/h)	1	2	5	8	12	18	24	36	5	8	12	18
Max. T° (°C) continuous	100	100	100	100	100	100	100	100	150	150	150	150
Max. pressure (bar)	9	9	9	5	9	6	9	6	9	6	9	6
Max. speed (Rpm)	1000	1000	750	750	500	500	450	450	750	750	500	500
Particle passage* (mm³)	2	2	5	5	15	15	20	20	5	5	15	15
Opening size (Suct/Disch) (mm)	40	40	50	50	60	60	70	70	50	50	60	60
CIP/SIP (120° C)		YES (only with SS construction)										

^{*}no hard particles

Options



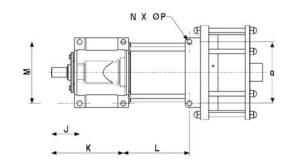
High temperature

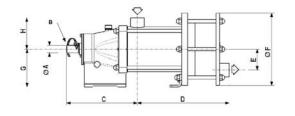


Heating jacket

◆ Stainless steel construction:

C Series Pump	C1i (C1i-VR)	C2i (C2i-VR)	C4i	C8i	C12i	C18i	C24i	C 36i
Α	19	19	20	20	35	35	38	38
В	6	6	6	6	10	10	10	10
С	162	162	233	233	310,5	310,5	345,5	345,5
D	236	249,5	257	274	428	447,5	533,5	561,5
E	53	53	62	62	96,5	96,5	121	121
F	196	196	228	228	337	337	395	395
G	105	105	120	120	175	175	224	224
Н	105,5	105,5	99	99	146,5	146,5	215	215
J					101	101	128,5	128,5
K	95,5	95,5	150	150	157	157	237,5	237,5
L	131,5	131,5	167	167	238	238	325,5	325,5
M	110	110	152	152	220	220	210	210
N	4	4	4	4	6	6	6	6
Р	10	10	14	14	18	18	18	18
Q							280	280
Port (mm)	40	40	50	50	65	65	80	80
Weight (kg)	21 (24)	22 (25)	38	41	115	120	185	200











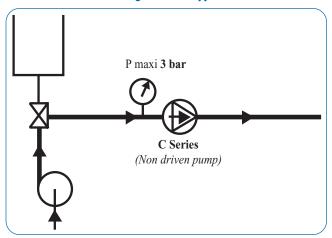
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♦ Stainless steel construction

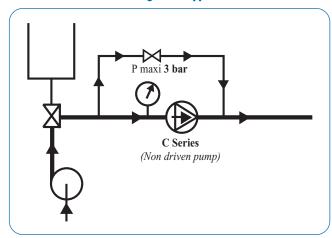
Cleaning recommandations

		C1/C2	C4/C8	C12/C18	C24/C36
CIP outputs required (m³/h) (maximum val	10	10	30/35	40/45	
Do we have to set up a bypass					
	15	YES	N0	N0	NO
	20	YES	N0	N0	NO
CIP outputs (m³/h)	25	YES	YES	N0	NO
	30	YES	YES	N0	NO
	35	YES	YES	N0	NO
	40	YES	YES	N0	NO

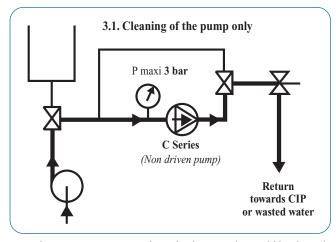
Setting without Bypass

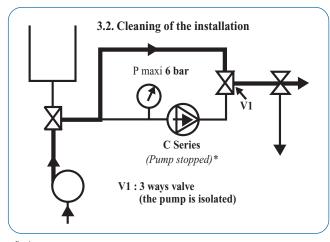


Setting with Bypass



Cleaning in 2 steps (pump & installation)





Non driven pump = Pump no driven by the motor but could be driven by the CIP flush. Pump stopped = Pump strictly stopped.

Illustrations

Applications: varnish, painting, resin, glue, isocyanate, oil, solvent...



C12i in painting industry

Applications:
ointment, sirup, cream, suppository, shampoo...



C18i in cosmetic/pharmaceutical industry

Applications: yeast, concentrate, glucose, flavour, alcohol...



C4i in beverage industry

Applications: isocyanate, polyol...



C 18a in chemical industry

Applications: flavour, sauce, chocolate, glucose...



C1i-VR in food industry

Applications: yogurt, ferment, dessert, yolk...



C2i in dairy industry

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♦ Ductile Iron

(Pump equipped with heating base and relief valve)



C Series Pump	C4a	C8a	C12a	C18a	C4a-HT	C8a-HT
Displacement (liters)	0,108	0,178	0,411	0,617	0,108	0,178
Max. flowrate (m³/h)	5	8	12	18	5	8
Max. T° (°C)	100	100	100	100	150	150
Max. pressure (bar)	9	5	9	6	9	6
Max. speed (Rpm)	750	750	500	500	750	750
Particles passage* (mm³)	5	5	15	15	5	5
Opening size (suct/dis) (mm)	50	50	60	60	50	50

^{*}Pump equipped with flanges (PN16/20)

C Series Pump	A	В	C	D	E	F	G	Н	J	K	L	M	N	P
C4a	20	6	233	242	67	254	120	127		150	172	152	4	4
C8a	20	6	233	259	67	254	120	127		150	172	152	4	4
C12a	35	10	310,5	384	109	363	175	12	101	157	239	220	6	6
C18a	35	10	310,5	384	109	363	175	172	101	157	239	220	6	6

C Series Pump	C4a	C8a	C12a	C18a
Port (mm)	50	50	65	65
Weignt (kg)	43	46	115	120

BELOWS: 316 Ti DISC: GS ductile

iron

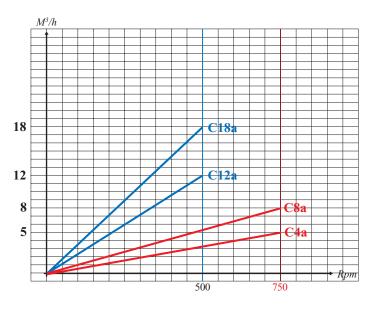
CYLINDER: GS ductile iron

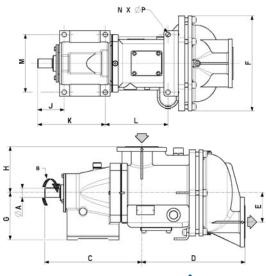
BODYCASE : GS ductile iron

RINGS : Vito

Viton O'Ring Encapsulated teflon

FLANGES: PN16, PN20







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